

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number ST02219NY-D

This certificate, issued to Delta Engineering
13 DRBA Way
New Castle County Airport
New Castle, Delaware 19720

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product — Type Certificate Number: A22WE
Make: McDonnell Douglas
Model: MD-11()

Description of Type Design Change:

Installation of a Panasonic Avionics Corporation System 3000i in accordance with Delta Engineering Master Data List 0125-05893-2132 Revision A dated Dec. 7, 2007 or later DAS Approved.

Limitations and Conditions:

1. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.
2. Compatibility of this design change with previously approved modifications must be determined by the installer.
3. Delta Engineering Instructions for Continued Airworthiness as listed on the Master Data List is required for this installation.
4. Delta Engineering Airplane Flight Manual Supplement as listed on the Master Data List is required for this installation
5. Cabin configuration must be installed accordance with the LOPA as listed on the Master Data List

This certificate and the supporting data which is the basis for approval shall remain in effect surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 10, 2006

Date reissued:

Date of issuance: November 8, 2006

Date amended: December 7, 2007



By direction of the Administrator

John A. Moritz
John A. Moritz
DAS Administrator
Delta Engineering, DAS-800728-NE

(Title)

Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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(Continuation Sheet)

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Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the McDonnell Douglas MD-11 () Series with this STC is as follows:

- a. The type certification basis for McDonnell Douglas MD-11 () Series airplanes is shown on TCDS A22WE for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by the change since the reference date of application, March 30, 2007 is based upon part 25 as amended by Amendment 25-119. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be as shown on the TCDS A22WE except the regulations listed below:

Section	Title	At Amendment
§25.831	Ventilation	25-89
§25.853	Compartment interiors	25-116
§25.855	Cargo or baggage compartments	25-116
§25.857	Cargo compartment classification	25-93
§25.869	Fire protection: systems	25-113
§25.981	Fuel tank temperature	25-102
§25.1307	Miscellaneous equipment	25-72
§25.1309	Equipment, systems, and installations	25-41
§25.1351	General	25-72
§25.1353	Electrical equipment and installations	25-113
§25.1423	Public address system	25-115
§25.1431	Electronic equipment	25-113
§25.1447	Equipment standards for oxygen dispensing units	25-116
§25.1557	Miscellaneous markings and placards	25-72
§25.1585	Operating procedures	25-105

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